

Title (en)
CONCENTRATING PHOTOVOLTAIC APPARATUS

Title (de)
KONZENTRIERENDE PHOTOVOLTAIC-VORRICHTUNG

Title (fr)
APPAREIL PHOTOVOLTAÏQUE À CONCENTRATION

Publication
EP 2077586 A4 20150325 (EN)

Application
EP 06822086 A 20061024

Priority
JP 2006321106 W 20061024

Abstract (en)
[origin: EP2077586A1] SUBJECT To provide a concentrator solar photovoltaic power generating apparatus with high durability and little deterioration of a transparent resin by light. MEANS FOR SOLUTION In the concentrator solar photovoltaic power generating apparatus 10, since the white resin member (shielding member) 64 to shield the transparent resin member 62 interposed between the bottom end surface of the homogenizer (columnar optical member) 50 and the solar cell 34 is provided, the bonded surface is not damaged due to deterioration of the transparent resin member 62 by light and, consequently, deterioration of the solar cell 34 due to entering moisture is restrained and high durability of the concentrator solar photovoltaic power generating apparatus 10 is achieved. Since the white resin member (shielding member) 64 is non-transparent colored resin member covering the transparent resin member 62, the white resin member 64 prevents deterioration of the transparent resin member 62 by sunlight, for the sunlight is difficult to reach the transparent resin member 62.

IPC 8 full level
H01L 31/054 (2014.01); **H01L 31/048** (2014.01)

CPC (source: EP)
F24S 30/458 (2018.04); **H01L 31/048** (2013.01); **H01L 31/0543** (2014.12); **H01L 31/0547** (2014.12); **H02S 20/32** (2014.12); **Y02E 10/47** (2013.01); **Y02E 10/52** (2013.01)

Citation (search report)
• [XAI] JP 2002289897 A 20021004 - CANON KK
• [XAI] US 4029519 A 19770614 - SCHERTZ WILLIAM W, et al
• [A] US 6483093 B1 20021119 - TAKEMURA KAZUHITO [JP], et al
• [A] JP 2006278581 A 20061012 - DAIDO STEEL CO LTD, et al
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Cited by
ES2491017R1; CN103532486A; ES2365959A1; US8816195B1; WO2012014088A2; US9577131B2; WO2012045895A3; WO2011097704A1

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DOCDB simple family (application)
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